

Claims

1. A mobile station that receives data from a plurality of sectors and selects sectors as candidates for site selection diversity transmit power control from said plurality of sectors, characterized in that said mobile station selects two or more sectors from sectors listed in a sector selection candidate table which is received, via said plurality of sectors, from a radio network control station.

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2. The mobile station according to Claim 1, characterized in that when said mobile station does not receive any data via dedicated physical data channels from selected sectors, said mobile station selects two or more sectors.

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3. The mobile station according to Claim 1, characterized in that when said mobile station has not received any data via dedicated physical data channels from selected sectors a predetermined number or more of times, said mobile station selects two or more sectors.

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4. The mobile station according to Claim 1, characterized in that said mobile station determines whether or not said mobile station is receiving data via a common pilot channel from each of said plurality of sectors, and, when said mobile station has not received any data via common pilot channels from each of said plurality of sectors a predetermined number or more of times, said mobile station selects two or more sectors.

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5. The mobile station according to Claim 4, characterized

in that said mobile station excludes sectors from which said mobile station does not receive any data via common pilot channels from candidates for site selection diversity transmit power control.

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6. The mobile station according to Claim 4, characterized in that said mobile station excludes sectors from which said mobile station has not received any data via common pilot channels the predetermined number or more of times from candidates for site selection diversity transmit power control.

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7. A mobile station that receives data from a plurality of sectors and selects sectors as candidates for site selection diversity transmit power control, characterized in that said mobile station determines whether or not said mobile station is receiving data from each of said plurality of sectors, and excludes sectors from which said mobile station has not received any data via common pilot channels a predetermined number or more of times from candidates for site selection diversity transmit power control.

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8. The mobile station according to Claim 7, characterized in that said mobile station determines whether or not said mobile station is receiving data via a common pilot channel from each of said plurality of sectors.

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9. The mobile station according to Claim 7, characterized in that said mobile station determines whether or not said mobile station is receiving data via a dedicated physical data channel from each of selected sectors, and excludes sectors from

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which said mobile station has not received any data via dedicated physical data channels a predetermined number or more of times from candidates for site selection diversity transmit power control.

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10. A mobile station that receives data from a plurality of sectors and selects sectors as candidates for site selection diversity transmit power control, characterized in that said mobile station selects sectors based on site selection diversity transmission power control on/off information received via said plurality of sectors from a radio network control station, information indicating whether or not said mobile station is receiving data via a dedicated physical data channel from each of said plurality of sectors, and DTX (Discontinuous transmission) on/off information of a TFCI (Transport Format Combination Indicator) field indicating a structure of a transport channel in the dedicated physical control channel.

20 11. The mobile station according to Claim 10, characterized in that said mobile station measures received power of the dedicated physical data channel so as to determine whether or not said mobile station is receiving data via the dedicated physical data channel from each of said plurality of
25 sectors.

12. The mobile station according to Claim 10, characterized in that said mobile station measures received power of the TFCI field of the dedicated physical data channel
30 so as to determine whether or not said mobile station is

receiving data via the dedicated physical data channel from each of said plurality of sectors.

13. The mobile station according to Claim 10,
5 characterized in that said mobile station measures received power of a pilot field of the dedicated physical data channel so as to determine whether or not said mobile station is receiving data via the dedicated physical data channel from each of said plurality of sectors.

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14. The mobile station according to Claim 10,
characterized in that said mobile station measures both received power of the TFCI field of the dedicated physical data channel and received power of a pilot field of the dedicated
15 physical data channel so as to determine whether or not said mobile station is receiving data via the dedicated physical data channel from each of said plurality of sectors.